

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (original) A nutritional composition suitable for facilitating bone healing in a mammal, comprising lysine, proline, ascorbic acid, copper, and vitamin B₆.
2. (original) The nutritional composition of claim 1, wherein the nutritional composition comprises 230 mg-10 grams lysine, 120 mg-5 grams proline, 360 mg-15 grams ascorbic acid, 1.5 μ g-20 mg copper, and 0.2 mg-20 mg vitamin B₆.
3. (original) The nutritional composition of claim 1, wherein the nutritional composition comprises 1,010 mg-8 grams lysine, 560 mg-4 grams proline, 1,500 mg-9 grams ascorbic acid, 2 μ g-6 mg copper, and 0.5 mg-10 mg vitamin B₆.
4. (currently amended) The nutritional composition of claim 1, wherein the ~~nutrition~~ nutritional composition comprises 1,010 mg lysine, 560 mg proline, 1,500 mg ascorbic acid, 330 μ g copper and 10 mg vitamin B₆.
5. (original) The nutritional composition of claim 1, wherein the nutritional composition further comprises vitamin A, vitamin D₃, vitamin E, vitamin B₁, vitamin B₂, niacin, folic acid, vitamin B₁₂, biotin, pantothenic acid, calcium, phosphorus, magnesium, zinc, selenium, manganese, chromium, molybdenum, potassium, citrus fruit peel bioflavanoids, arginine, cysteine, inositol, carnitine, coenzyme Q₁₀, and pycnogenol.
6. (original) The nutritional composition of claim 5, wherein the nutritional composition comprises 67 μ g-100 mg vitamin A, 0.7 μ g-50 μ g vitamin D₃, 0.7 μ g-50 μ g vitamin E, 1.4 mg-8 mg vitamin B₁, 1.4 mg-8 mg vitamin B₂, 9 mg-250 mg niacin, 18 μ g-500 μ g folic acid, 4 μ g-100 μ g vitamin B₁₂, 13 μ g-400 μ g biotin, 8 mg-100 mg pantothenic acid, 7 mg-40 mg calcium, 3 mg-300 mg phosphorus, 40 mg-200 mg magnesium, 0.5 mg-10 mg

zinc, 20 μ g-300 μ g selenium, 0.8 mg-15 mg manganese, 2 μ g-200 μ g chromium, 0.8 μ g-100 μ g molybdenum, 4 mg-300 mg potassium, 20 mg-500 mg citrus fruit peel bioflavonoids, 10 mg-500 mg arginine, 10 mg-400 mg cysteine, 5 mg-400 mg inositol, 5 mg-400 mg carnitine, 1.6 mg-70 mg coenzyme Q₁₀, and 1.6 mg-70 mg pycnogenol.

7. (original) The nutritional composition of claim 5, wherein the nutritional composition comprises 166 μ g-50 mg vitamin A, 1.65 μ g-20 μ g vitamin D₃, 1.65 μ g-20 μ g vitamin E, 3.5 mg-7 mg vitamin B₁, 3.5 mg-7 mg vitamin B₂, 22.5 mg-100 mg niacin, 45 μ g-300 μ g folic acid, 10 μ g-50 μ g vitamin B₁₂, 32 μ g-300 μ g biotin, 20 mg-60 mg pantothenic acid, 17 mg-35 mg calcium, 7 mg-100 mg phosphorus, 50 mg-100 mg magnesium, 3 mg-8 mg zinc, 30 μ g-250 μ g selenium, 1 mg-3.25 mg manganese, 2 μ g-75 μ g chromium, 2 μ g-75 μ g molybdenum, 8 mg-200 mg potassium, 50 mg-250 mg citrus fruit peel bioflavonoids, 100 mg-300 mg arginine, 80 mg-200 mg cysteine, 80 mg-200 mg inositol, 80 mg-200 mg carnitine, 3 mg-35 mg coenzyme Q₁₀, and 3 mg-35 mg pycnogenol.

8. (original) The nutritional composition of claim 5, wherein the nutritional composition comprises 333 μ g vitamin A, 3.3 μ g vitamin D.sub.3, 3.3 μ g vitamin E, 7 mg vitamin B.sub.1, 7 mg vitamin B.sub.2, 45 mg niacin, 90 μ g folic acid, 20 μ g vitamin B.sub.12, 65 μ g biotin, 40 mg pantothenic acid, 35 mg calcium, 15 mg phosphorus, 40 mg magnesium, 7 mg zinc, 20 μ g selenium, 1.3 mg manganese, 10 μ g chromium, 4 μ g molybdenum, 20 mg potassium, 100 mg citrus fruit peel bioflavonoids, 40 mg arginine, 35 mg cysteine, 35 mg inositol, 35 mg carnitine, 7 mg coenzyme Q₁₀, and 7 mg pycnogenol.

9. (original) The nutritional composition of claims 1 or 5, wherein the nutritional composition contains 27-34% wt lysine, 14-16% wt proline, and 42-47% wt ascorbic acid.

10. (original) The nutritional composition of claims 1 or 5, wherein the mammal is a human.

11. (original) A method for facilitating bone healing in a mammal, comprising the step of administering to a mammal in need thereof an effective amount of a nutritional composition comprising lysine, proline, ascorbic acid, copper, and vitamin B₆.

12. (original) The method of claim 11, wherein the effective amount of the nutritional composition is a daily dosage of 3.2-139 mg/kg lysine, 1.7-69.4 mg/kg proline, 5-208.3 mg/kg ascorbic acid, 0.02-278 $\mu\text{g/kg}$ copper, 2.78-279 $\mu\text{g/kg}$ vitamin B₆.

13. (original) The method of claim 11, wherein the effective amount of the nutritional composition is a daily dosage of 14-111 mg/kg lysine, 7.8-55.6 mg/kg proline, 20.8-125 mg/kg ascorbic acid, 0.03-83.3 $\mu\text{g/kg}$ copper, and 6.94-139 $\mu\text{g/kg}$ vitamin B₆.

14. (original) The method of claim 11, wherein the effective amount of the nutritional composition is a daily dosage of 14 mg/kg lysine, 7.8 mg/kg proline, 20.8 mg/kg ascorbic acid, 4.6 $\mu\text{g/kg}$ copper, 139 $\mu\text{g/kg}$ vitamin B₆.

15. (original) The method of claim 11, wherein the nutritional composition contains 27-34% wt lysine, 14-16% wt proline, and 42-47% wt ascorbic acid.

16. (original) The method of claim 11, wherein the nutritional composition further comprises vitamin A, vitamin D₃, vitamin E, vitamin B₁, vitamin B₂, niacin, folic acid, vitamin B₁₂, biotin, pantothenic acid, calcium, phosphorus, magnesium, zinc, selenium, manganese, chromium, molybdenum, potassium, citrus fruit peel bioflavonoids, arginine, cysteine, inositol, carnitine, coenzyme Q₁₀, and pycnogenol.

17. (original) The method of claim 11, wherein the nutritional composition further comprises 0.9-1,390 $\mu\text{g/kg}$ vitamin A, 0.01-0.694 $\mu\text{g/kg}$ vitamin D₃, 0.01-0.694 $\mu\text{g/kg}$ vitamin E, 19.4-111 $\mu\text{g/kg}$ vitamin B₁, 19.4-111 $\mu\text{g/kg}$ vitamin B₂, 125-3,472 $\mu\text{g/kg}$ niacin, 0.25-6.94 $\mu\text{g/kg}$ folic acid, 0.05-1.39 $\mu\text{g/kg}$ vitamin B₁₂, 0.181-5.56 $\mu\text{g/kg}$ biotin, 111-1,390 $\mu\text{g/kg}$ pantothenic acid, 97.2-555 $\mu\text{g/kg}$ calcium, 42-4,167 $\mu\text{g/kg}$ phosphorus, 555-2,778 $\mu\text{g/kg}$ magnesium, 6.9-139 $\mu\text{g/kg}$ zinc, 0.28-4.17 $\mu\text{g/kg}$ selenium, 11.1 -208.3 $\mu\text{g/kg}$ manganese, 0.03-2.78 $\mu\text{g/kg}$ chromium, 0.01-1.39 $\mu\text{g/kg}$ molybdenum, 55.6-4,167 $\mu\text{g/kg}$ potassium, 278-6,944 $\mu\text{g/kg}$ citrus fruit peel bioflavonoids, 139-6,944 $\mu\text{g/kg}$ arginine, 135-5,555 $\mu\text{g/kg}$ cysteine, 69-5,555 $\mu\text{g/kg}$ inositol, 69-5,555 $\mu\text{g/kg}$ carnitine, 22.2-972 $\mu\text{g/kg}$ coenzyme Q₁₀, and 22.2-972 $\mu\text{g/kg}$ pycnogenol.

18. (original) The method of claim 11, wherein the nutritional composition further

comprises 2.31-694 $\mu\text{g/kg}$ vitamin A, 0.023-0.278 $\mu\text{g/kg}$ vitamin D₃, 0.023-0.278 $\mu\text{g/kg}$ vitamin E, 48.6-97.2 $\mu\text{g/kg}$ vitamin B₁, 48.6-97.2 $\mu\text{g/kg}$ vitamin B₂, 312.5-3,190 $\mu\text{g/kg}$ niacin, 0.6-4.17 $\mu\text{g/kg}$ folic acid, 0.14-0.69 $\mu\text{g/kg}$ vitamin B₁₂, 0.444-4.17 $\mu\text{g/kg}$ biotin, 278-833 $\mu\text{g/kg}$ pantothenic acid, 236-903 $\mu\text{g/kg}$ calcium, 97.2-1,390 $\mu\text{g/kg}$ phosphorus, 694-1,390 $\mu\text{g/kg}$ magnesium, 41.7-111 $\mu\text{g/kg}$ zinc, 0.42-3.47 $\mu\text{g/kg}$ selenium, 13.9-45.1 $\mu\text{g/kg}$ manganese, 0.07-2.78 $\mu\text{g/kg}$ chromium, 0.03-1.04 $\mu\text{g/kg}$ molybdenum, 111.1-2,778 $\mu\text{g/kg}$ potassium, 694-3,472 $\mu\text{g/kg}$ citrus fruit peel bioflavanoids, 1,389-4,167 $\mu\text{g/kg}$ arginine, 1,111-2,778 $\mu\text{g/kg}$ cysteine, 1,111-2,778 $\mu\text{g/kg}$ inositol, 1,111-2,778 $\mu\text{g/kg}$ carnitine, 41.7-486 $\mu\text{g/kg}$ coenzyme Q₁₀, and 41.7-486 $\mu\text{g/kg}$ pycnogenol.

19. (original) The method of claim 11, wherein the nutritional composition further comprises 4.6 $\mu\text{g/kg}$ vitamin A, 0.046 $\mu\text{g/kg}$ vitamin D₃, 0.046 $\mu\text{g/kg}$ vitamin E, 97.2 $\mu\text{g/kg}$ vitamin B₁, 97.2 $\mu\text{g/kg}$ vitamin B₂, 625 $\mu\text{g/kg}$ niacin, 1.25 $\mu\text{g/kg}$ folic acid, 0.27 $\mu\text{g/kg}$ vitamin B₁₂, 0.9 $\mu\text{g/kg}$ biotin, 555 $\mu\text{g/kg}$ pantothenic acid, 486 $\mu\text{g/kg}$ calcium, 208 $\mu\text{g/kg}$ phosphorus, 555 $\mu\text{g/kg}$ magnesium, 97.2 $\mu\text{g/kg}$ zinc, 0.78 $\mu\text{g/kg}$ selenium, 18.1 $\mu\text{g/kg}$ manganese, 0.14 $\mu\text{g/kg}$ chromium, 0.06 $\mu\text{g/kg}$ molybdenum, 277.8 $\mu\text{g/kg}$ potassium, 1,389 $\mu\text{g/kg}$ citrus fruit peel bioflavanoids, 555 $\mu\text{g/kg}$ arginine, 486 $\mu\text{g/kg}$ cysteine, 486 $\mu\text{g/kg}$ inositol, 486 $\mu\text{g/kg}$ carnitine, 97.2 $\mu\text{g/kg}$ coenzyme Q₁₀, and 97.2 $\mu\text{g/kg}$ pycnogenol.

20. (original) The method of claims 11 or 16, wherein the nutritional composition contains 27-34% wt lysine, 14-16% wt proline, and 42-47% wt ascorbic acid.

21. (original) The method of claims 11 or 16, wherein the mammal is a human.

22. (original) The method of claims 11 or 16, wherein the nutritional composition is effective in reducing >about 5% bone healing time.

23. (original) The nutritional composition of claim 20, wherein the nutritional composition is effective in reducing >about 15% bone healing time.

24. (original) The nutritional composition of claim 20, wherein the nutritional composition is effective in reducing >about 50% bone healing time.

25. (original) The method of claims 11 or 16, wherein the step of administering is performed orally, intravenously or parenterally.

26. (original) The method of claim 21, wherein the step of administering is performed orally.